

TABLE I

| cDNA         | Embryo Phase | Clone   | Nucleotide Sequence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------|--------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SEQ ID NO:37 | Late         | LPS-051 | GACCGCTTGTTCAATGCAGAATCTCGAAGAGATGTCTTGGACAAATACTGAACTGG<br>CACGATTGGTGTAGTGCGGTTCAAAAGGCGCTCCAGATTCTGCTGGAACGAATCTT<br>CATACGCTGAACAATTAGACATCTTGTACGCAAGAGAATTACGATCGGCCATATAAA<br>AACCCCAAAGAGAAGAAAGTGTTCGAAATTCTCCAGAAAACAGTCTTATGCCAC<br>CGATTTGTCTTTCAACATGCATTTGCAATGAAGTCTTTGGATTCTTACTGTGAGTG<br>CTGATCAGCAACGGATTTTCGATCTGTATAGCTCTGCCGATTCTGGTTAAAGCAG<br>CTAAGAGTTAGGCATCCAGATTTTGAGTTTTTGCATCTCACAATGTTTGAATACATT<br>TCAAATCCATTGTTGGAGTAACCTAACAACTGACTCTTCTTCTCTATTCTGAA<br>GCCCTCTGCCAGTTTAAGGCAGAGAACTGAGTTATCTACAAGCGGTC |
| SEQ ID NO:38 | Late         | LPS-052 | GACCGCTTGTTATAATAAAGTGGTACCGCGTCTGCAAACAGGGTTCTCTTGCCATC<br>CTGCTACAACCCTGCAGTGGTGCAGTAGAGAGAATCGGAGCAACGAACGTTTTC<br>CCGAATATATGGAGCGGGAGGAAGAGTTTTCTTGCTGATGATCCAATCGGAGTCGA<br>ACTGCCACCGCTGGATGAAGGGCGGCGAGGAAATCTTGGGGGCGAGAGGCCCGT<br>CGGCGTAGGAAATAAGAAACGATTTGATATGGAACGAAAGGGGCCGTCAGGGTT<br>CGATCCCCGGCAGGGCAGCCAGCCCCGAACTAAACAAAACAATAAGAACAACAG<br>CAAAGTAAAAGAAAGCACCAGAAGAAACAGCAGCAGACGAAGAGTAAGGAGCTGC<br>CCACAAGCGGTC                                                                                                     |
| SEQ ID NO:39 | All          | LPS-053 | GACCGCTTGTATCCACAGCATTTTCAATAACTTCTGAGGTGACATCCACCTCCAC<br>TCAGAAAACCTGGCTGCATCTGTCCCATCACCAGCTAGATTGATCTCACTCTCGTC<br>TCCTCTAAATTTAGGAGGAACCATTTCTGTGCTTGACCTTCCATTGCGCTCCCCA<br>CAAGCGGTC                                                                                                                                                                                                                                                                                                                                                 |
| SEQ ID NO:40 | Middle       | LPS-054 | GACCGCTTGTATATAATGTGAAGACACAATAAAATTTGTCCAACAAAGCAACCAAA<br>CGACCAAAATTTAGCTGTGACATCAAAAAGCTCAACCCCTACAATGAATGTAACCT<br>TAATCTAGAAAATTGATCCATGATCTCCACTGAATTTTCTCGTTTCATCTGAAGAA<br>GAGAACTTAAATGTACCCGATTCCCTCAACCAAGCCCCCACAAGCGGTC                                                                                                                                                                                                                                                                                                       |
| SEQ ID NO:41 | Early        | LPS-055 | GACCGCTTGTATCCACAGCATTTTCAATAACTTCTGAGGTGACATCCACCTCCAC<br>TCAGAAAACCTGGCTGCATCTGTCCCATCACCAGCTAGATTGATCTCACTCTCGTC<br>TCCTCTAAATTTTAGGAGGAACCTGTAATTGGTAGGGGCTTGCATAATGATCAAG<br>ACGACCCGCATCGTGATGCCAAGCTTAGTCTTTCTACTTACTGTCTATGTAATGGTC<br>ACGGGGCCCTTCTATGTTTATGTCTCTTTGAAATGGACGATTTTTTTGTTTTAGGTAT<br>TCAGTTTCTGAAGCTGTTTTGGTAGTAACTGGGCTCAATCATTTCTGTTGCTTGAA<br>CTTTCCATTGCGCTCCCCCACAAGCGTCAGCCGAATTCTGCAGATATCCATCACCT<br>GGGGGGGCGCTCGAACATGCATCTAGAAGGCCAATCCCCTATATGAATTCTATTA<br>AATCCCTGGCCTCGTTTTA                         |
| SEQ ID NO:42 | Early        | LPS-056 | GGTGCGATCCAGAAAACATCATCTCTCACTGCTCGTGAACAAAATGCTGGTTCAT<br>AGCCATCACTAAGGCTAAGGTACTATCCAGCCAACTGATCTCAAATAATAATTTCA<br>TAAGCTTAAATAAATAGTCCAGCCAGTAGATGGAGCCAAAAGCCATAGAAGCTTC<br>AAATACTTGTGGTATCAATCTCTCCTCTGTTAAGGGAGGTATCAGATCAGAAGCAAT<br>AATCAAATGCATACATAAATGCAGTAGACTGCAATAAAACAAAATCTGCAGATAGCA<br>ACAGAGCGCTTAACGAACGGAAAAGAGTTTAACTTGATCTATCACAGGATCGCACC                                                                                                                                                                        |
| SEQ ID NO:43 | All          | LPS-057 | GGTGCGATCCACAATAGTTCGTACGAGCGACGTCTATCTGGTTAATCAGAACACAT<br>ATCTAATTTGGAATTTGTGGGCATAAAGCTCCACAGTGTAGGTGGGCTAATCCCA<br>TGAAACATTACTCTTCAAACATCATACAACTGAGGTGGAATTTGCAAAAGATTATT<br>ACTGGATGCTGATCTGGGACTAAGGTGGTGGCCATTGGTAATGTTGTGTTTCAGAA<br>ATATATCTTCATGATGATCAGTAGTTGCATCTGGTTGGAAGAATGATAAATCTGGT<br>AATTTGTCTTGGGATCGCACC                                                                                                                                                                                                            |

LAW OFFICES

FINNEGAN, HENDERSON,  
FARABOW, GARRETT,  
& DUNNER, L.L.P.  
1300 I STREET, N.W.  
WASHINGTON, DC 20005  
202-408-4000

TABLE I

| cDNA         | Embryo Phase | Clone   | Nucleotide Sequence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------|--------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SEQ ID NO:44 | Late         | LPS-058 | GGTGCGATCCAAC TAGAAGAATATAAAGAAAAATTACGGACTACCAGAAAACATCA<br>CATCACAGTGTATTGCATTCTCAATAATCAGAACTGTACTGGCTAATATCGCTGTGC<br>CTGTCGTTTTCTTTCTGTCTATCCGCATAGGGCCCCCTATTTTCCCTATCTTGACG<br>AAATCCAAGAAATGCAAGAAAACCAAAAAGGAAGAAACCCCCAGAGGAAGAGTCCG<br>AAGAGGATATGGGTGTCAGTCTTTTTGACTAGATTGGAGGATCGCACC                                                                                                                                                                                                         |
| SEQ ID NO:45 | Early        | LPS-059 | GGTGCGATCCCAGAACATTTT CAGACAGATTA AAACAAGATCTAGTCAATTCCTACAA<br>GGGAAACTTTTGTCAAGATCCGGATCCAGATTTTCTCAAGTAAACTAATCTCATT<br>AAATCCAAGCCAATCTCTAGCAAAATTCAAACACTTTTTATTAATCCAAGCCATATA<br>TCTGGCAAATTCACCGAAATATGTACAATCGCAGCGCATTGCTTGGCTTGCGACAG<br>AAACCATATTCGCACGTCTTCATAAGGCTTTGGATCGCACC                                                                                                                                                                                                              |
| SEQ ID NO:46 | All          | LPS-060 | GGTGCGATCCAACAACACAGCTTTCACACTTACTCCATCCTCTGGAACCTCTCATCAG<br>ATTGTGTTCTTCGTAGACCAAGTTCCTGTGAGAGTCCACAGGCACACTGAGGCTAC<br>AAGCGATGTGTTCCCTAAAGAACAGGGGATGTACATGTTTTCCAGCATTGGAATG<br>CAGACGACTGGGCAACCAGGGGTGGGCTTGGGAAGACAACTGGACTGCCGCTC<br>CATTGAGCGGATCGCACC                                                                                                                                                                                                                                           |
| SEQ ID NO:47 | All          | LPS-061 | GGTGCGATCCCAACACCAAGTGAGAATGAAGCAATATAAATCAGCAGACTCACTAA<br>AGCCAAAACAGTGAAAAATGTTTCATATTGGGAATCTGCTCCAGAATGAGCCTTCAA<br>GTAAATGACAACTAACGAGGAAGAGACATACGGCCATGCCCCAGATGAGACC<br>ATGAGGAGGAGACGTCTCGGGCTTTATCCATGAGCCATACAGCAACTGCAGTCAT<br>GATGACCTGGATCGCACC                                                                                                                                                                                                                                             |
| SEQ ID NO:48 | Late         | LPS-062 | GGTGCGATCCAGGAAATCATCAAAGGGGAGCACATCCAATGTGCAAAATAAGATCA<br>TCATGCAGCAAGATCTCTGAAATATAAGCTCTGTAAGACCAATCTGAAGTGCTGATG<br>ATCAATATGAACTGAAACATCATGCCACAATGGGCTGGTACTTGTGCAAAATCTCT<br>GGCATGTGATGAGAATCACATGGTTACCTCTTTGGATCGCACC                                                                                                                                                                                                                                                                           |
| SEQ ID NO:49 | Early        | LPS-063 | GGTGCGATCCAAAGAGCCTTCTTG CAGACAATCCGTGAAAACATGGCTATACAATA<br>AATCCCAGTTTGGAATTCTAAATAAACTGTTCAATATTTGAAGGCCTCTGATATCA<br>CAGAGACTGATATTAGAATGGAAGCATGTAGCAACCCTAGAAGCTTTCGCATAAAG<br>ATACCAGATTAATTCATAAGAAGGATCTCTCGTTACCCAGTCACATATCACAGTCGG<br>ATCGCACC                                                                                                                                                                                                                                                 |
| SEQ ID NO 50 | Late         | LPS-064 | GGTGCGATCCGTTAGATGAGCTGCCAAGTATGGAATTATTGACATTTTGGACGGG<br>TTATGGGCAGAGGGATGTGCCAAGCTGAAGAAGATACCGGGGTGGAGCAAGCCA<br>CAAACTTCGAGAGTTAGATGTTAGTGGGTGCCCTCAGTTAGATGAGCTGCCAAGT<br>ATGGAATTATTGACATCTTTGACGGCTTGTGGGCAAGGGATCGCACC                                                                                                                                                                                                                                                                            |
| SEQ ID NO:51 | Middle       | LPS-065 | GGTGCGATCCACATAGTTTGAATGCAAGGAAATTGCACATACTTCGTGGGGAATTT<br>CGATGGCAAATCAGTCCAGGTAAATGACTTCTCAACATAGGTCCAAAACCTTTTCAT<br>AGACCAGATCTTGACCGTGTGTGTCATGCCACAGCTTGCAATACGATATACATCTG<br>AAGGATGAAAATCTACACTGAGAACTTCATTGCGATGTCCCCAGCTCCAGCAAAT<br>ATCAAAATGCATATTCAGTTTGAACATTCCAGAGTCGTACAGATTATCTTTGCTA<br>GCAGATAAAAATAAGGGAAGGTTTCAGTTGCTTGGGTCTTATTTTCATTACAGAACT<br>CCATGGCCAACGAACTCTTATGGACTTTTCATTGTCACATCCATTCTCGAATTATA<br>CATTGTGACCGCAGCCACTAATAATGGGGAACATCACTCGCCTGCCCACTTATGTG<br>TTAAAGAATC |
| SEQ ID NO:52 | Late         | LPS-066 | GGTGCGATCCCCTCCATTTACCATGGTATACTGTTCCAAAGGTTCCAGAGCCTAGC<br>TCTTTCAATTCTTCAAGGTCAGCATTCTTTATTATCTGGAACTTCGCTAGCTGTGT<br>CTATAATCACGAAACCCAGACGGGGAACATAATAGGCGATGAAGTTTCTCTTATCCA<br>TAACCGTTGCAAAGATCTTACACGGAGTTTCTCTTCTCTGCGTGGCTTTTCTTTT<br>CCGTATTCTCGGATCGCACC                                                                                                                                                                                                                                       |

LAW OFFICES

FINNEGAN, HENDERSON,  
FARABOW, GARRETT,  
& DUNNER, L.L.P.  
1300 I STREET, N.W.  
WASHINGTON, DC 20005  
202-408-4000

TABLE I

| cDNA         | Embryo Phase | Clone   | Nucleotide Sequence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------|--------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SEQ ID NO:53 | Late         | LPS-067 | GGTGCGATCCATACATGCGAGGGCGCATGAGAGACTACCAAAATCCTACATACCT<br>CCATTCACCCCTGGATCGGTTATACAAGGATTTGGGGTGGCTAAAGTGATACTCTC<br>AAATCACCAGACTTCAGAGAGGGTGACTTTGTATCTGGTACTATAGGATGGGAAG<br>AGTACAGCATAATACCAAAAGGGAGTAACCTAAGAAAGATCAAATATACGGACGTAC<br>CACTTTTCATATTTTGTGGGTGTTTTAAGAATGCCCGGGTTTACTGCTTATGCTGGAT<br>TCTTTGAAGTTTGCTCTCCTAAAAAGGGGAGCATGTTTTGTCTCTGCCGCTTCA<br>GGAGCTGTTGGCCAGCTTGTGGGCACTTTGCAAAGTTGATGGGTTGCTATGTTGT<br>TAGGGAGCGCGGGTAACAAACAGAAGGCTGATCTGCTGAAACATAAAATGGGCTTT<br>GATGATGATCTCCACCATAACGAGGAGCATGACTTCGATGTGGCTTTAAAAAGGCA<br>TTTTCCAGATGGGATTGCACC |
| SEQ ID NO:54 | Late         | LPS-069 | GGTGCGATCGAACTGAATGAATGACGTTGCCAAGCTATGTTTGGGAATTAACCTT<br>GAATGCCGTTATTCTCTCCTTTTTCCAAAGGGCCTTTCTGCCAGAAAACCTTAA<br>TTTCTGACTGGTTTCCAGTCCAATTTTTAAATATGGATTGGTTTACCATTGAAGG<br>CACCACCATGCTCTGAAAGTTATGGACTGCACTTGCCCCAGTGCTATATTTAGTCC<br>AGATAGCGCTTGTGTCTCTAAATGCATCTCCCTGCTCGGATATCACC                                                                                                                                                                                                                                                                                     |
| SEQ ID NO:55 | Late         | LPS-070 | GGTGCGATCCGAACAGAGGGAGCAGATTTTGCCCTTGCAAGTATTCACAACATTAG<br>AGAAGCCCTGCCAGAGATATGGGAGGAAGAAGATGCAGAGAACACCAAAAATGTT<br>GTGGGATCAAGAGGAGCGGATGCAACTATAGAACTGTTGTACGGCATAAGCCA<br>TCGCCTCATTGAATGAGGGAATGGAGGACTAGACAAATCCCTTTGGATCGCACC                                                                                                                                                                                                                                                                                                                                          |
| SEQ ID NO:56 | Middle       | LPS-071 | GGTGCGATCCGATTGGGCACTGCAAGCCTTGGGAAGCTTTAGAATCAAATTGCAC<br>TCATCCTCCAGGAGGTATTGAGAAGTCAATTTCTCAAGGTCTACAGTGACAGAAGG<br>AACCATCTTGACAATCTTATCAGGTTTCCTGCTCTGGTTAAACACTTCACTTTGAC<br>AGGACGAGAGAATGTGACTAATTCATCTTCTCATCAGACTCTACATCTTCTGTTT<br>CAAGAAACAAAGATACTGATCATCACTAGGGCAAGAATTGATGATTTTGATATCTCT<br>GGAGAAGCCAGTGTTTACATTGGTTTGCTTCATGGCCACCAGTCTATGGCATAAAG<br>CTTTCCCGAAAGGGTACTTGGCAGATTTAACAGAGCCCAACGTTATTTAAGGCC<br>CATCTCTTTGCTCTCAAAATTTTTCTTGATCCTCTGGAGAATATAAAACCCCTTGG<br>TGTCTCTTTCCACAAACACCTTCTCATTGATC                                                   |
| SEQ ID NO:57 | Late         | LPS-072 | GGTGCGATCCAACAGAGAAGGGTGTGGTGGAAAGATGACACCAAGTGGGTTCT<br>ATATTCTCCAGAGGATGCAAGAAAAATTTGAGAGAAAGATGGGCCCTTAAATA<br>TAACGTGGGGTCTGTAAATCTGCCAAGTACCCTTCAGGAAAGTTTATGCCATAG<br>ACTTGGTGGCCATGAAGCAAACCAATGTAAACACTGGTTCTCCAGAGATATCAAAA<br>TCATCAATTCTTCCCTAGTGATGATCAGGAAGATGTAGAGTCTGATGAAGAAGAT<br>GAATTAGTCACATTCTCTCGTCTGTCAAAGTTGAAGTGCTTAACCAGAGCAGGAA<br>ACCTGATAAGATTGTCAAGATGGTTCCTTCTGCTACTGTAGACCTTGAGAAATTGAC<br>TTCTCAATACCTCCTGGAGGATGAGTGCAATTTGATTCTAAAGCTTCCCAAGGCTG<br>CAGCTGCCAATCGGATCGCACC                                                                   |
| SEQ ID NO:58 | Late         | LPS-073 | GGTGCGATCCATGTAGTGCCAACCTACGAGATCACTAATTTAAACTATCATGCAA<br>TTGGCCAATAGAAGCGACACTTGCTGTGCCAAAGTATCGATAGGCTACTCCCGATG<br>GCTCAATCATATATAGTTGGGGCCCATCTATCATAACCTCCAAGGATAACTCCAG<br>ATCCAAAAGGCCTTAACCACCAATATAGTGTGCACAAATGCACATAACTGGCAACA<br>CGTTCACAAAGTTCCTTAAT                                                                                                                                                                                                                                                                                                              |
| SEQ ID NO:59 | All          | LPS-074 | GGTGCGATCCCATGGGATAGTTGCAAGACACACAAATTTGTTGTGAAAGAAGAGAG<br>ACACGCACAGACAACCATATGATCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT<br>TTAGCAAAATTCAAACACTTTTTATTAATCCAAGCCATATATCTGGCAAATTCACCG<br>AAATATGTACAATCGCAGCGCATTGCTTGGCTTGGACAGAAACCATATTCGCACG<br>TCTTCATAAGGCTTTGGATCGCACC                                                                                                                                                                                                                                                                                                       |

LAW OFFICES

INNEGAN, HENDERSON,  
FARABOW, GARRETT,  
& DUNNER, L.L.P.  
1300 I STREET, N. W.  
WASHINGTON, DC 20005  
202-408-4000